

CUSTOMER NUMBER 25268

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Sheehan et al. Attorney Docket No. UNIV0170
Serial No.: 10/626,028 Group Art Unit:
Filed: July 24, 2003 Examiner:
Title: SEGMENTATION OF LEFT VENTRICULOGrams USING BOOSTED
DECISION TREES

INFORMATION DISCLOSURE STATEMENT

Bellevue, Washington 98004

December 23, 2003

TO THE COMMISSIONER FOR PATENTS:

Applicant is aware of the information listed in the attached form that may be material to the prosecution of the above-identified patent application.

- ☒ 1. Copies of the listed publications under Other Information are enclosed for the Examiner's use.
- ☐ 2. Copies of the listed patents, publications, and other information were previously cited by or submitted to the U.S. Patent and Trademark Office in prior application Serial No. _____, filed _____, and relied upon for an earlier filing date under 35 U.S.C. § 120.
- ☐ 3. A concise explanation of the relevance of document I.D. No. _____ (which is not in the English language), as presently understood by the individual designated under 37 C.F.R. § 1.56(c) most knowledgeable about its content, is provided _____.
- ☒ 4. Pursuant to 37 C.F.R. § 1.97(b), this information disclosure statement is being filed within three months of the filing date of the national application, within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, or before the mailing date of a first Office Action on the merits.
- ☐ 5. Pursuant to 37 C.F.R. § 1.97(c), this information disclosure statement is being filed after the period set forth in 37 C.F.R. § 1.97(b) but before the mailing date of either a final action under 37 C.F.R. § 1.113, or a notice of allowance under 37 C.F.R. § 1.311, and is accompanied by:
- a. _____ a certification as specified in 37 C.F.R. § 1.97(e); or
- b. _____ the fee set forth in 37 C.F.R. § 1.17(p). Check No. _____ in the amount of \$ _____ is enclosed.

1 6. Pursuant to 37 C.F.R. § 1.97(d), this information disclosure statement is being filed
2 after the mailing date of either:

3 a. _____ a final action under 37 C.F.R. § 1.113; or

4 b. _____ a notice of allowance under 37 C.F.R. § 1.311,

5 but before payment of the issue fee. The statement is accompanied by a
6 certification as specified in 37 C.F.R. § 1.97(e), a statement requesting
7 consideration of the information disclosure statement, and the petition fee set
8 forth in 37 C.F.R. § 1.17(p). Check No. _____ in the amount of
 \$____ is enclosed.

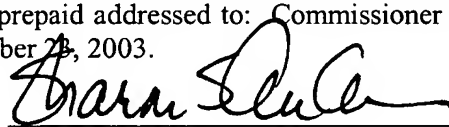
9 X 7. Please charge any additional fees or credit any overpayment to Deposit Account
10 No. 01-1940. A copy of this sheet is enclosed.

11 Respectfully submitted,

12 

13 Ronald M. Anderson
14 Registration No. 28,829

15 I hereby certify that this correspondence is being deposited with the U.S. Postal Service in a sealed
16 envelope as first class mail with postage thereon fully prepaid addressed to: Commissioner for Patents, P.O.
17 Box 1450, Alexandria, Virginia 22313-1450, on December 23, 2003.

18 
19 Date: December 23, 2003



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INFORMATION DISCLOSURE STATEMENT LISTING SHEET

**Information Cited By Applicant(s) That May Be Material To
The Prosecution Of The Subject Application**

Applicants: Sheehan et al. Attorney Docket No. UNIV0170
Serial No.: 10/626,028 Group Art Unit:
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U.S. PATENT DOCUMENTS

<u>*Examiner Initial</u>	<u>ID</u>	<u>Document No.</u>	<u>Date</u>	<u>Name</u>	<u>Class</u>	<u>Sub- Class</u>
_____	US1	5,570,430	10/29/1996	Sheehan et al.	328	128
_____	US2	5,734,739	03/31/1998	Sheehan et al.	328	128
_____	US3	5,819,247	10/06/1998	Freund et al.	706	25
_____	US4	5,889,524	03/30/1999	Sheehan et al.	345	419
_____	US5	6,453,307	09/17/2002	Schapire et al.	706	12
_____	US6	6,456,993	09/24/2002	Freund	706	46

FOREIGN PATENT DOCUMENTS

NONE CITED

OTHER INFORMATION

<u>*Examiner Initial</u>	<u>Document No.</u>	<u>Document Information</u>
_____	O1	Freund, Yoav and Robert E. Schapire. 1996. "Experiments with a New Boosting Algorithm." <i>Machine Learning: Proceedings of the Thirteenth International Conference</i> (1-9).
_____	O2	Freund, Yoav and Robert E. Schapire. 1997. "A decision-theoretic generalization of on-line learning and an application to boosting." <i>Journal of Computer and System Sciences</i> 55(1):119-139 (35pp).
_____	O3	Sheehan, F.H., et al. 1998. "Three Dimensional Echocardiography System for Quantitative Analysis of the Left Ventricle." <i>IEEE: Computers in Cardiology</i> 25:649-652.



OTHER INFORMATION

<u>Examiner</u> <u>Initial</u>	<u>Document</u> <u>No.</u>	<u>Document Information</u>
_____	O4	Sonka, Milan, Vaclav Hlavac, and Roger Boyle. 1998. <i>Image Processing, Analysis, and Machine Vision</i> . 2 nd ed. PWS Publishing. (559-569).
_____	O5	Friedman, Jerome, Trevor Hastie, and Robert Tibshirani. (2 nd Rev.) 1999. "Additive Logistic Regression: a Statistical View of Boosting." (November) Unpublished.
_____	O6	Hastie, Trevor, Robert Tibshirani, and Jerome Friedman. 2001. <i>The Elements of Statistical Learning: Data Mining, Inference, and Prediction</i> . New York: Springer-Verlag (257-345).
_____	O7	Kamath, Chandrika et al. 2003. "On the Use of Machine Vision Techniques to Detect Human Settlements in Satellite Images." <i>Image Processing: Algorithms and Systems II, SPIE Electronic Imaging</i> (January) 13pp.
_____	O8	Hoppe, Hugues et al. "Piecewise Smooth Surface Reconstruction." Nd. 8pp.

Examiner's Signature

Date

*Examiner: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RMA:ssa
12/23/03